

PN - JP9120889 A 19970506

PD - 1997-05-06

PR - JP19950298968 19951024

OPD - 1995-10-24

TI - ORGANIC DISPERSIVE EL ELEMENT OF **PATTERN** LIGHT EMISSION TYPE

IN - WADA JUN

PA - NIPPON KASEI CHEM

IC - H05B33/06 ; H05B33/04

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TI - **Pattern** light emitting type organic distributed EL element used for marker and signboard - has electric **insulation** resin layer for non-light emitting part, provided between light emitting layer and transparent electrode

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PA - (NIKS) NIPPON KASEI KK

IC - H05B33/04 ; H05B33/06

AB - J09120889 The EL element has a reflecting **insulated** layer (3) and a light emitting layer (4) sequentially arranged between a back electrode (1) and a transparent electrode (2). A collector band is formed in contact with the light emitting layer, at the side of transparent electrode.

- A moisture prevention film (10) covers the sequentially formed layers. An electric **insulation** resin layer for a non-light emitting part which is formed to the same **pattern** as the light emitting part, is provided between the light emitting layer and the transparent electrode.

- ADVANTAGE - Improves power saving effect. Enables combined any number of **sheets** thereby forming light emitting surface of large area.

- (Dwg.1/4)

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AB - PROBLEM TO BE SOLVED: To fabricate EL element easily, improve the power saving effect, and to embody in a large size easily by consolidating all EL elements included and packaging, and installing an electric **insulative** resin layer between the light emission layer and transparent electrodes.

- SOLUTION: A conductive material is installed on the contacting line of back electrodes 1, 1 in contacting, and through holes 7, 7 are provided in transparent electrodes 2, 2 located on the two ends of each current collecting band 5, 5 in positions near the contacting surface. The holes 7, 7 are filled with a conductive paste, and the heads 8, 8 of this paste made in columnar **shape** are connected by the conductive material 9. An electric **insulative** resin layer for the non-emission part formed in **patterns** of light emission parts and non- emission parts is furnished between the light emission layer 4 and electrodes 2 of each EL element. This allows easy fabrication, improves the power saving effect, and permits consolidated use even many EL elements of ordinary size which are considered in the design, and thereby a light emitting plane of a required large area can be constructed easily.